## Appendix B. Estimating Forms

The attached forms summarize the information needed to make proper comparisons between candidate filter systems. Labor costs for the first form are derived from the second form. The second form includes the major items involved in replacing filters in a contaminated exhaust system—additional factors may have to be added for a particular system. A separate cost analysis (first form) must be made for each bank of components for each combination to be prepared. The total system cost is the sum of the costs of the individual banks.

AIR FILTER SYSTEM COST ANALYSIS									
Location:	_ Capacity:	cfm. Resistance:	Clean	in.v	g. Aver	age:	in.wg.		
Filter unit, manufacturer and model:			_ Filter u	nit dimensions:	×	××			
Estd filter life:mo. System life:years. Hour	n of operation	per year: Escalation	: Labor	%/year. Mate	rials:	%/year. Powe	r:%/year,		
Capital costs	Dollars	Maintenance							
Mounting frame			Dollars per 1000 cfm	Changes Toper year (do	otal cost	Escalation rate	Adjustment cost*		
Additional support structure, service galleries, etc.		<b>∦</b>	1000 crin	per year (40	, year,		COST		
Filter auxiliaries (loading, cleaning equipment, etc.)		Replacement filters							
Filter units (initial set)		Medium coating mtls**							
Housing		Encapsulation mtls**							
Blower, motor, and mounting		Cleaning costs**	<u> </u>						
Controls and instrumentation		Disposal*							
Remote handling equipment (if required)		New material storage							
Wiring and utilities		Labor athr/unit							
Labor Hours Rate Burden Mechanical		• *		annual mainten or estimated fut			•		
Electrical		Total average annual cost:	s						
Spacesq ft at \$/sq ft  Total capital cost		Total cost for years	: \$	•	-				
Annual operating costs									
Amortization at% interest  Power cost, (hp) × (778) × (\$/kWhr) × (hr)	) <b>-</b>	Note: hp = (cfm × Δp)/( where eff = (moto			cy)				
(see Note)									

## LABOR COST ESTIMATING FORM FOR INTERNAL COMPONENTS OF RADIOACTIVE EXHAUST SYSTEM

	Personn	Personnel		Time		
	Туре	Number of men	×hours	× man-hours		
Make ready	Supervisory					
Planning				J		
Move new components to installation site						
Inspect	Technician	Technician		1		
Prepare area: place barriers, floor coverings, etc.				1		
Dress mechanics: coveralls  shoe covers  respirators  tape clothing	Mechanic	Machanic				
Other	Mechanic					
Replace prefilters, demisters, HEPA filters, adsorber cells	Supervisory					
Demisters: quantity						
Prefilters: quantity		-		1		
HEPA filters, first stage: quantity	Technician			1		
Adsorber cells: quantity			+	- <del> </del>		
HEPA filters, second stage: quantity	Mechanic	1		1		
Bag and or box prefilters, demisters, HEPA filters, adsorber cells Other	Mechanic					
Cleanup  Remove used components to temporary storage area	<del></del>	1 1				
Bag and remove tools, etc.; take to decontamination area	Supervisory		1	1		
				1		
Bag and remove trash		1	<u> </u>			
Clean up area		1	ŀ	1		
Health physics survey Undress mechanics	Technician					
Leak test HEPA filter and adsorber banks		1 1				
Disposal or shipment to disposal site		1	1			
Disposal or snipment to disposal site  Decontaminate		<del> </del>				
	Mechanic					
Rebalance system	<del></del>		į			
Other		<del></del>				